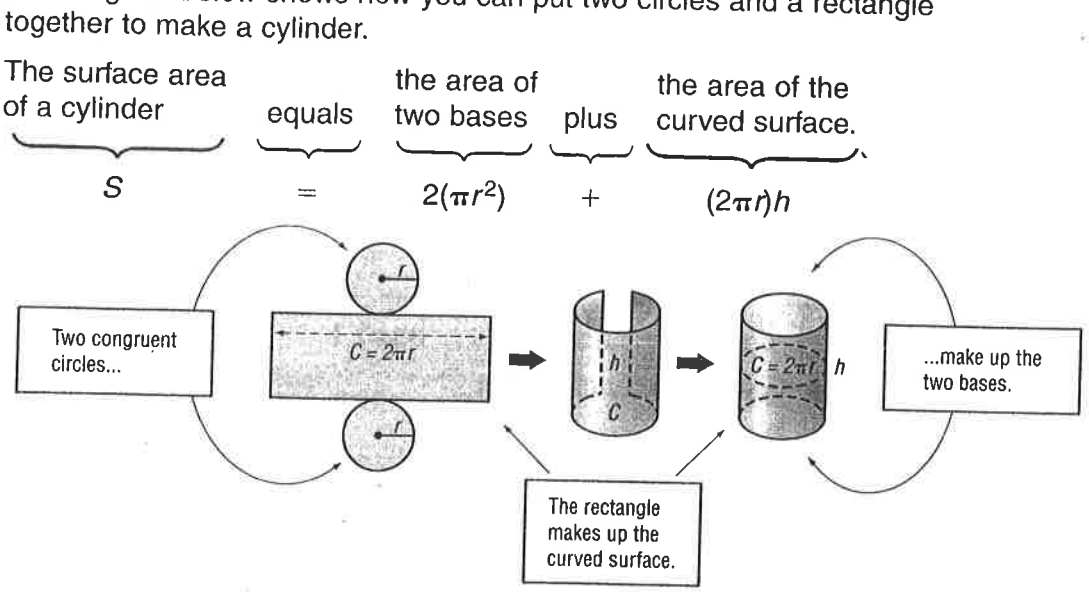
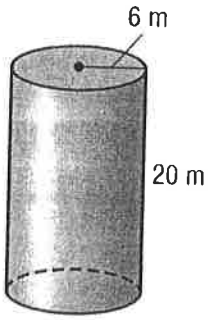
Surface Area of Cylinders

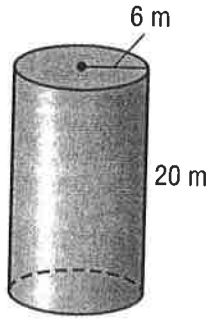
The diagram below shows how you can put two circles and a rectangle together to make a cylinder.





In the diagram above, the length of the rectangle is the same as the circumference of the circle. Also, the width of the rectangle is the same as the height of the cylinder.

EXAMPLE 1 **Find the surface area of the cylinder. Round to the nearest tenth.**



$S = 2\pi r^2 + 2\pi rh$ Surface area of a cylinder.

$S = 2\pi(6)^2 + 2\pi(6)(20)$ Replace r with 6 and h with 20.

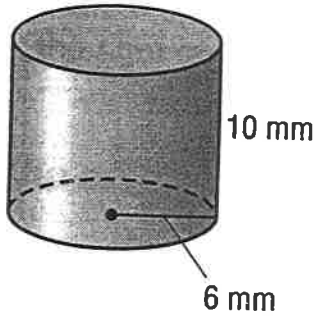
≈ 980.2 Simplify.

The surface area is about 980.2 meters.

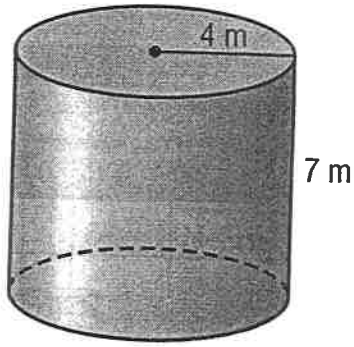
Find the surface area of each cylinder. Round to the nearest tenth.

1.

2.



3.



Name _____